



# Quick Start Guide



Item Number: IV-BV7660IR-AHDM

Thank you for purchasing our products. Please read the cut-sheet carefully before operating.

## Safety Precaution

	<b>Warning</b> Don't dismantle without authority, becareful thunder striking.	
Note: To avoid thunder-striking, please don't open the backcover, the maintenance must be made by our authorized serviceman.		

## Warning

- \* To prevent fire or shock hazard, please do not immerse the unit into the water for a long period of time.
- \* Please make sure the adapter used is consistent with product specifications, Otherwise, it might cause fire, electric shock or damage.
- \* Pay attention to polarity of the adapter, it might cause some accidents like fires, and will burn out the camera.
- \* Please don't connect multiple cameras with the same adapter at the same time; overloading of adapter capacity may cause fires.
- \* Power supply must be firmly fixed so as not to cause fires.
- \* If the device gets abnormal smell or smoke, please stop it immediately and contact our customer service center.
- \* If the camera doesn't work, please do not dismantle it by yourself.  
Please contact our local distributor or our maintenance office to trouble shoot,  
Otherwise, the warranty is voided.
- \* Please do not splash water on the product components when cleaning.

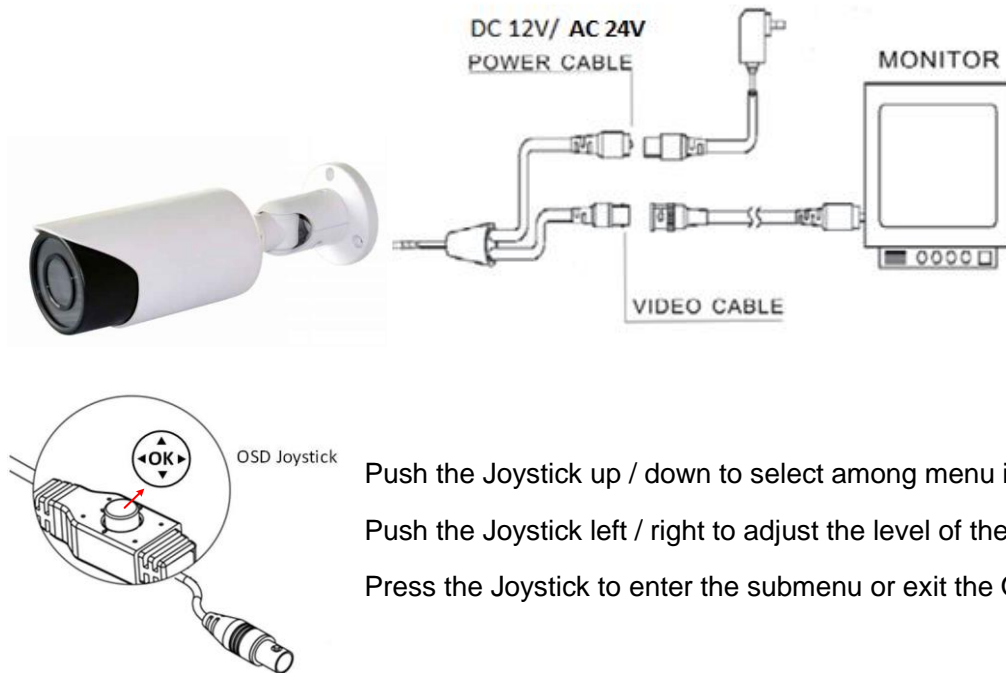
## Technical Specifications

<u>Item Number:</u>	<u>IV-BV77660IR-AHDM</u>
<u>Signal System:</u>	<u>NTSC</u>
<u>Sensor CCD:</u>	<u>1/3" Progressive Sensor</u>
<u>Resolution:</u>	<u>720P</u>
<u>Lens:</u>	<u>Vari-focal 6-60mm</u>
<u>OSD:</u>	<u>YES</u>

<u>Minimum Illumination:</u>	<u>0 LUX (IR ON)</u>
<u>S/N Ratio:</u>	<u>More than 52 dB</u>
<u>Distance:</u>	<u>150ft</u>
<u>LED:</u>	<u>12 PCS High Density IR LED</u>
<u>Video Output:</u>	<u>1Vp-p 75Ω . AHDM / CVBS switch</u>
<u>Connector video:</u>	<u>BNC</u>
<u>Operation Temperature:</u>	<u>-4°F to +122°F</u>
<u>Supplied Power:</u>	<u>24VAC, 12VDC(+/-10%):</u>

## Installation

1. Connect the terminated power wire of the cable directly to the AC or DC power source.
2. Connect the BNC output of the Camera to an extension cable, or directly to a DVR / Observation System or to a TV/Monitor.
3. Fix up the pedestal on the ceiling, fix up the screw of pedestal.
4. Aim and adjust the "Field of View" as desired, then fix up the screw of horizontal angle.
5. Next, choose a satisfactory angle at which to aim the camera then connect the screw of declining angle.



- Push the Joystick up / down to select among menu items.
- Push the Joystick left / right to adjust the level of the selected item.
- Press the Joystick to enter the submenu or exit the OSD Setup Menu.

**Note: The function button is not only for direction control, also for switching video format and video output. Please follow the detailed instruction as below:**

- ✧ Push the joystick "DOWN" button key over 5 seconds to switch video format from PAL to NTSC.
- ✧ Push the joystick "LEFT" button key over 5 seconds to switch video output from 720p to 960H (CVBS is the default).
- ✧ Push the joystick "RIGHT" button key over 5s to switch video output from 960H to 720p.

6. Tear apart the outer packing (figure 1) to take out the Desiccant Bag (figure 2), then put it into the camera housing (figure 3)



Figure 1



Figure 2



Figure 3

**Note: It's recommended to close the cover cap immediately in case of reducing the absorption capacity of the desiccant bag inside the camera.**

## Troubleshooting

1. No picture or unstable - Check the connection for video cable and/or power cable.
2. The image is so blurred
  - 1) Check if there is some dirt on the lens, then use customized lens paper or cotton with alcohol to clean.
3. The image is so dim - Adjust the CNT of monitor and iris
4. Screen color cast in the special environment - Adjust direction
5. The screen glittering - The camera might face to the sun, TV set or computer.
6. The camera works abnormal; the surface over-heat; has peculiar smell, smoke etc.
  - Please cut off the power supply immediately. Secondly, check the connection to the power supply. If the camera is deemed faulty, send it back to your vendor or authorized reseller for repair.

## Accessory List

No.	Name	Quantity	Remark
1	CCTV Camera	1	
2	User Manual	1	
3	Screw	1	

\* If the camera doesn't work, please do not dismantle it by yourself.

Please contact our local distributor or our maintenance office to trouble shoot,

Otherwise, the warranty is voided.

\* Please do not splash water on the product components when cleaning.

### Configuration in the OSD Menu

You can use the Joystick on the rear panel of the camera to configure camera settings in the OSD menu. For details on the OSD menu structure as below:

No.	Main	Sub Menu	Sub Menu / Function				
1	Lens	DC*	Mode	Indoor			
				Outdoor*	Min Shu.	NTSC: 1/30*	
						PAL: 1/25*	
					Max. Shu.	NTSC: 1/60,FLK,1/240, 1/480,1/1000, 1/2000,1/5000*, 1/10000, 1/50000	
						PAL: 1/50,FLK,1/200, 1/400,1/1000, 1/2000,1/5000*, 1/10000, 1/50000	
		Iris Speed	0 – 15(0*)				
Manual							
2	Exposure	Shutter	NTSC: 1/30, 1/60, FLK, 1/240, 1/480, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000, X2, X4, X6, X8, X10, X15, X20, X25, X30, Auto*				
			PAL: 1/25, 1/50, FLK, 1/200, 1/400, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000, X2, X4, X6, X8, X10, X15, X20, X25, X30, Auto*				
		AGC	0 – 15(15*)				
		Sens-up	Off*				
			Auto	Sens-up	X2, X4*, X6, X8, X10, X15, X20, X25, X30		
		Brightness	1-100(40*)				
		D-WDR	Off*				
			On	Level	0-8(8*)		

		Defog	Auto		
			Off*		
			Auto	Pos/Size	Position, Size,↑,↓,→,←
				Gradation	0-2(0*)
				Default	

3	Backlight	Off*				
		BLC	Level	Middle*, High, Low		
			Area	Position, Size,↑,↓,→,←		
			Default			
		HSBLC	Select	Area1*, Area2, Area3, Area4		
			Display	Off		
				On*	Position, Size,↑,↓,→,←	
			Black Mask	On*/Off		
			Level	0-100(20*)		
			Model	All Day*		
				Night	AGC Level	0-255(48*)
		Default				
4	White Balance	ATW*				
		AWC→SET				
		Indoor				
		Outdoor				
		Manual	Blue	1-500(50*)		
			Red	0-100(50*)		
		AWB				
5	Day & Night	Ext*	D→N(Delay)	0-60(1*)		
			N→D(Delay)	0-60(1*)		
		Auto	D→N(AGC)	1-255(240*)		
			D→N(Delay)	0-60(1*)		
			N→D(AGC)	1-255(50*)		
			N→D(Delay)	0-60(5*)		
		Color				
		B/W	Burst	Off*/On		

			IR Smart	Off		
				On*	Level	0-15(4*)
					Area	Position, Size, ↑, ↓, →, ←
			IR PWM	Off		
				0-100(100*)		
6	NR	2DNR	Middle*/Low/Off/High			
		3DNR	Middle*/Low/Off/High			
7	Special	Cam Title	Off*			
			On	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ▶ →←↑↓()^-_!/=&:~.,		

		D-effect	Freeze	Off*/On					
			Mirror	Off*, Mirror, V-flip, Rotate					
			Neg. Image	Off*/On					
		Motion	On	Off*					
					Select	Area1*,Area2,Area3,Area4			
					Display	On*	Position, Size,↑, ↓,→,←		
						Off			
					Sensitivit y	0-100(64*)			
					Color	Green*, Blue, White, Red			
					Trans	1.00*,0.75,0.50, 0.25			
					Alarm	View Type	Off, Block, Outline, All*		
						OSD View	On*/Off		
						Alarm Out	On*/Off		
						Alarm Sig	High*, Low		
						Time	1-15(3*)		
					Default				
					Privacy	Off			
						On	Select	Area1*,Area2,Area3,Area4	
							Display	Off	

					Color*	Position, Size,↑, ↓,→,←		
						Mosaic	Position, Size,↑, ↓,→,←	
						Inv	Position, Size,↑, ↓,→,←	
					Color	White*, Black, Red, Blue, CYAN, Yellow, Green		
					Trans	1.00*,0.75,0.50, 0.25		
				Default				
				Language	ENG*/CHN1/CHN2/GER/FRA/ITA/SPA/POL/RUS/POR/NED/TUR			
		Defect	Live DPC	Off				
				On*	AGC level	0-255(65*)		
					Level	0-100(100*)		

					Off			
					On*	Pos/Size	Position, Size,↑, ↓,→,←	
				Start		Close the iris then press		
				DPC View		Off*/On		
				Level		0-60(5*)		
				AGC		0-14(14*)		
				Sens-up		x2*, x4, x6, x8,x10, x15, x20, x25, x30		
				Black DPC		Off*		
					On	Pos/Siz	Position, Size,↑, ↓,→,←	
						Start	Press Enter	
						DPC View	Off*/On	
						Level	0-255(255*)	
				RS485	CAM ID	0-255(1*)		
					ID Display	Off*/On		
					Baud Rate	2400,4800,9600,19200 ,38400		

8	Adjust	Sharpness	Off				
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			Auto*	Level	0-10(6*)	
				Start AGC	0-255(50*)	
				End AGC	0-255(200*)	
		CRT/LCD	CRT	Black Level	0-60(0*)	
				Blue Gain	0-100(50*)	
				Red Gain	0-255(50*)	
			LCD*	Gamma	User*,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,0.95,1.00	
				Blue Gain	0-100(50*)	
				Red Gain	0-100(50*)	
				LSC	Off*/On	
			Video. Out	PAL/NTSC		
		9	Exit	Save& END /Reset/Not Saved		